


**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER DIVISION
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Subject: Guidance Memo No. 09-2003
Implementation of the VPDES General Permit for Potable Water Treatment
Plants VAG64

To: Regional Directors

From: Ellen Gilinsky, Ph.D., Director 

Date: March 12, 2009

Copies: Deputy Regional Directors, Regional Water Permit Managers, Regional Water
Compliance Managers, Rick Weeks, James Golden, Fred Cunningham

Summary:

The purpose of this guidance is to establish procedures for the permitting of point source discharges of potable water treatment plant wastewater to surface waters of the Commonwealth.

Electronic Copy:

An electronic copy of this guidance in PDF format is available for staff internally on DEQNET, and for the general public on DEQ's website at:
<http://www.deq.virginia.gov/waterguidance/permits.html>.

Contact information:

Please contact Fred Cunningham, Office of Water Permits and Compliance Assistance at (804) 698-4285 or fkunningham@deq.virginia.gov, if you have any questions regarding this implementation guidance.

Disclaimer:

This document is provided as guidance and, as such, sets forth standard operating procedures for the agency. However, it does not mandate any particular method nor does it prohibit any particular method for the analysis of data, establishment of a wasteload allocation, or establishment of a permit limit. If alternative proposals are made, such proposals should be reviewed and accepted or denied based on their technical adequacy and compliance with appropriate laws and regulations.

Implementation of VPDES General Permit for Potable Water Treatment Plants VAG64

Introduction

At the October 2008 meeting, the State Water Control Board adopted the VPDES General Permit regulation (9 VAC 25-190) that allows the issuance of the subject general permit. The effective date of this general permit is December 24, 2008 and it will expire on December 23, 2013. A copy of the adopted regulation and the final version of the permit fact sheet, and separate copies of the registration statement and general permit are attached to this guidance for use by the permit writers. Also these documents, attachments and guidance are available on the agency website and on DEQNET.

Permit Coverage

Because coverage under this general permit requires toxicity testing results, registrants applying for coverage under this regulation will have previously been covered under an individual permit. It is anticipated that in most cases general permit coverage will be timed with expiration of the individual permit, which is preferable as it does not involve a permit termination. A discharger may however, request that the individual VPDES permit be terminated and coverage then provided under the general permit.

Permit writers should send out the potable water treatment plant general permit registration statement in addition to individual application forms for facilities that might qualify for coverage. Providing the individual application forms will help to ensure that that individual permit reissuance will be completed before the existing individual permit expiration if the facility is ineligible for the general permit. The general permit registration statement, just like any application, should be complete before the discharge is covered. If necessary, staff may require additional clarification or information to the registration statement to determine coverage under this general permit.

Facilities will need to meet the following conditions to qualify for coverage:

1. The facility has submitted a complete registration statement (including fee).
2. The facility has the correct SIC code (4941-Water Supply).
3. The facility has a point source discharge.
4. Discharge is not to prohibited waters.
5. There are no sewage discharges.
6. The facility has not been required to obtain an individual permit as may be required in the VPDES Permit Regulation.
7. The facility complies with the limits and special conditions of the permit. The treatment system described in the registration statement should be evaluated to determine if the discharge will meet the permit limits.
8. The facility has completed the pre-requisite the Whole Effluent Toxicity evaluation required by 9 VAC25-860-50.

The following information should be used in reviewing registration statements to determine if a discharge is eligible for the general permit:

1. Facilities to be covered shall include wastewater generated from clarifier underflow, sludge blowdown and particulate filter backwash from plain purification and lime-soda softening process, iron filter backwash wastewater from iron and manganese removal processes, reverse osmosis and micro filtration plants as designated by SIC 4941-Water Supply.

2. General permit coverage shall be denied if the discharge is into waters where other Board regulations or policies prohibit such discharges or have additional requirements. For example, coverage shall be denied if the facility uses a halogen compound in their treatment process and the discharge is into an endangered or threatened species or high quality trout stream habitat identified in the Water Quality Standard halogen ban. Refer to 9 VAC 25-260-110 for stream segment listing.
3. General permit coverage shall be denied if the discharge requires additional protection per the Board's Antidegradation Policy 9VAC25-260-30 for discharges to high quality waters or exceptional waters.
4. General permit coverage shall be denied if antibacksliding requirements will not be met in the transition from an individual permit to a general permit. Backsliding should be evaluated on a case-by-case basis, in accordance with the VPDES Permit Regulation.
5. General permit coverage shall be denied for discharges to receiving streams where there is an EPA-approved TMDL with Waste Load Allocation (WLA) assigned to the facility.
6. This general permit does not contain iron and manganese water quality criterion limits for discharges upstream of the intake of a public water supply (PWS). Therefore, the general permit does not cover discharges from water treatment plants that discharge wastewater to points 5 miles upstream of the intake of a PWS. These plants should be covered by an individual VPDES permit.
7. Existing individual permits for water treatment plants that include pits, ponds, or lagoons as part of their wastewater treatment process should have included a ground water monitoring plan. If existing ground water monitoring data indicates the potential for ground water contamination or the need for corrective action the facility should continue under the individual permit.
8. The whole effluent toxicity evaluation results must demonstrate that there is not a reasonable potential for toxicity when evaluated statistically, as described in the Toxics Management Program Implementation Guidance document Number 00-2012 and any subsequent updates. All acceptable tests that reflect the current characteristics of the discharge may be used in this evaluation (Data review checklists are available upon request to provide the test acceptability criteria from the EPA and the Virginia DEQ.). If reasonable potential for toxicity is determined, the facility cannot qualify for coverage by a general permit at this time.
9. This general permit does not authorize discharges of sewage. If sewage is being discharged, then an individual VPDES permit is required.

Per the Memorandum of Understanding between DEQ and the other natural resources agencies and the corresponding Guidance Memo No. 07-2007, there is no threatened and endangered species coordination required for general permits.

Where land application is selected as the solid disposal method then a determination should be made whether a VPA permit is required.

The permittee is not required to conduct a daily inspection of the effluent or routine maintenance of the wastewater treatment facility when there is not a discharge of effluent.

Preparation of Permit Package

Once it is determined that the registration statement represents a facility that qualifies for coverage, the general permit pages can be prepared. The cover page (printed on agency letterhead), the appropriate Part I effluent limits page, special conditions and boilerplate should be assembled with the general permit number for the facility entered in the indicated areas on the pages. The pages of Part II are already numbered. The outfall numbers must also be added at the end of the first sentence on each effluent limitations page. No other changes to the language of the general permit are authorized.

Permit numbers will be assigned sequentially on DEQNET by OWP&CA (Eleanor Daub) when the registration statement data is complete. All permit numbers will begin with the same five characters: VAG64. The remaining numbers are assigned by OWP&CA. OWP&CA should be provided with the following information: facility name, owner name, facility location, facility telephone number, and Region Office. The permit number and information can be viewed on http://deqnet/docs/water/Water_permit/VPDES_Permit_Program/General_permits/Potable_Water_Treatment_Plant_Permit_Nos.xls. Please remember that the permit number has to be typed in on the permit pages (including the cover page) before the permit is mailed to the owner.

The general permit requires once per month monitoring and reporting. The monitoring frequency can be reduced to once per quarter monitoring upon written notification from the DEQ regional office. The approval of reduction in monitoring frequency should follow procedures listed in the VPDES Permit Manual. DMRs are necessary for reporting and compliance tracking. (Template DMR included as Attachment 6.) All outfalls described in the registration statement should be listed on the effluent limits page and on the DMR, so that there is indication in the permit of what outfalls require sampling. Flow, pH, Total Suspended Solids, and Total Residual Chlorine monitoring are required for wastewater discharges from potable water treatment plants. Flow, pH, Total Dissolved Solids, and Dissolved Oxygen monitoring are required for wastewater discharges from reverse osmosis potable water treatment plants.

Once the DMRs are ready, use the appropriate transmittal letter to transmit the permit and DMRs to the permittee and keep a copy for the regional file. It is not necessary to copy OWP&CA or EPA on individual coverage under a general permit. Note that the transmittal letter for coverage under a general permit does not contain the two paragraphs referencing the owner's right to appeal the decision to cover them under the permit. The transmittal should indicate where DMRs are to be sent. The reduced frequency of once per quarter monitoring reports are due on the tenth of April, July, October and January. Tracking of compliance with the limits and other requirements of the general permit should be done according to the Compliance Auditing Manual already established for individual VPDES permits. Reporting requirements for noncompliance, unusual or extraordinary discharges, etc. are the same as for an individual permit.

Permit Inspection and Tracking

These facilities are subject to the inspection strategy in the industrial small category. They should be inspected at least once every five years.

Tracking of coverage under this general permit will be performed in the Regions. Hard copy files should include the registration statement, a copy of the general permit and DMRs sent to the owner, transmittal letter and any inspection reports, since these files are subject to auditing.

It is important that the database is kept updated with the list of permittees and contact information, their permit numbers, and which effluent limits pages they have.

Agency management has determined that this general permit will not be part of CEDs. Specific guidelines for tracking permit information and compliance will be provided by July 2009.

Termination of Coverage

If an owner requests termination of coverage under the general permit the regional office can terminate coverage under regional letterhead.

Change In Ownership

If there is a request for a change of ownership, then the new owner assumes the coverage under the general permit and the permit number does not change. The new owner may submit a new registration statement, but it is not necessary. Part II of the permit allows for automatic transfer of ownership if the 30 day prior notice and the required written agreement between the new and old owners are provided. The other change of ownership requirements and procedures from the VPDES Permit Regulation and VPDES Permit Manual that are common to all VPDES permits apply here as well. Any change of status should be noted.

Renewal of Coverage

The permittee will receive a reissuance reminder letter to submit a new registration statement for this general permit if continued coverage is desired.

Permit Fee

The fee for coverage under this general permit is \$600.00. Fees submitted for this permit should be handled according to the same procedures that are followed for other permit fees. Refer to the fee regulation.

Attachments:

1. General Permit Regulation
2. General Permit Fact Sheet
3. General Permit Pages
4. Registration Statement and Instructions
5. Example Transmittal Letters
6. Discharge Monitoring Reports

1. GENERAL PERMIT REGULATION

9VAC25-860 - GENERAL VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) PERMIT FOR POTABLE WATER TREATMENT PLANTS

9VAC25-860-10. Definitions.

The words and terms used in this regulation shall have the meanings defined in the State Water Control Law and 9VAC25-31, VPDES Permit Regulation, unless the context clearly indicates otherwise, except that for the purposes of this chapter:

"Potable water treatment plants" means establishments primarily engaged in distributing water for sale for domestic, commercial, and industrial use as designated by Standard Industrial Classified (SIC) Code 4941 – Water Supply (Office of Management and Budget (OMB) SIC Manual, 1987).

"Reverse osmosis" means a method of water treatment that involves the application of pressure to a concentrated solution that causes the passage of a liquid from the concentrated solution to a weaker solution across a semi-permeable membrane. The membrane allows the passage of the solvent (water) but not the dissolved solids (solutes).

9VAC25-860-20. Purpose.

This general permit regulation governs the discharge of wastewater from potable water treatment plants to surface waters.

9VAC25-860-30. Delegation of authority.

The director, or an authorized representative, may perform any act of the board provided under this chapter, except as limited by §62.1-44.14 of the Code of Virginia.

9VAC25-860-40. Effective date of the permit.

This general permit will become effective on December 24, 2008. This general permit will expire five years after the effective date. This general permit is effective for any covered owner upon compliance with all the provisions of 9VAC25-860-50 and the receipt of this general permit.

9VAC25-860-50. Authorization to discharge.

A. Any owner governed by this general permit is hereby authorized to discharge to surface waters of the Commonwealth of Virginia provided that the owner files and receives acceptance by the board of the registration statement of 9VAC25-860-60, files the required permit fee, complies with the effluent limitations and other requirements of 9VAC25-860-70, and provided that:

1. The owner has not been required to obtain an individual permit according to 9VAC25-31-170 B 3;
2. The proposed discharge is not to state waters specifically named in other board regulations or policies that prohibit such discharges; and
3. The owner demonstrates that there is not a reasonable potential for toxicity by performing a toxicity screening, the results of which are to be submitted with the registration statement. The toxicity screening shall consist of a minimum of four sets (set = vertebrate and invertebrate) of acute or chronic tests that reflect the characteristics of the current effluent using the following tests and organisms.

For an intermittent or batch discharger	48 hour static acute toxicity tests
Freshwater organisms	Pimephales promelas or Oncorhynchus mykiss (for cold water) (vertebrates) Ceriodaphnia dubia (invertebrate)
Saltwater organisms	Cyprinodon variegates (vertebrate) Americamysis bahia (invertebrate)
For a continuous discharger	
Freshwater	7-Day Chronic Static Renewal Larval Survival and Growth Test with Pimephales promelas (vertebrate) 3-Brood Chronic Static Renewal Survival and Reproduction Test with Ceriodaphnia dubia (invertebrate)
Saltwater	7-Day Chronic Static Renewal Larval Survival and Growth Test with Cyprinodon variegatus (vertebrate) 7-Day Chronic Static Renewal Survival, Growth and Fecundity Test with Americamysis bahia (invertebrate)

Freshwater organisms are used where the salinity of the receiving water is less than 1.0%. Where the salinity of the receiving water is greater than 1.0% but less than 5.0% either freshwater or saltwater organisms may be used. Saltwater organisms are used where the salinity is greater than 5.0%.

There shall be a minimum of 30 days between sets of tests, and test procedures shall follow 40 CFR Part 136, which references the EPA guidance manuals for whole effluent toxicity testing. The data will be evaluated statistically to see if there is reasonable potential for toxicity; if such a potential exists, the facility must either continue operation under its existing individual VPDES permit, or apply for an individual VPDES permit.

Facilities that are subject to the requirements of 9VAC25-820-70 Part I G 1 (General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia - Requirement to Register), are excluded from coverage under this general permit.

B. Receipt of this general permit does not relieve any owner of the responsibility to comply with any other federal, state or local statute, ordinance or regulation.

9VAC25-860-60. Registration statement.

The owner/operator shall file a complete VPDES general permit registration statement for potable water treatment plants. Any owner/operator proposing a new discharge shall file the registration statement at least 60 days prior to the date planned for commencing operation of the new discharge. Any owner of an existing potable water treatment plants covered by an individual VPDES permit who is proposing to be covered by this general permit shall file the registration statement at least 180 days prior to the expiration date of the individual VPDES permit. Any owner of an existing potable water treatment plant not currently covered by a VPDES permit who is proposing to be covered by this general permit shall file the registration statement. The required registration statement shall contain the following information:

1. Facility name and location address (street no., route no., or other identifier), mailing address, telephone number and the email address;
2. Facility owner's name mailing address, telephone number and the email address;
3. Facility operator name and mailing address and telephone number;
4. The nature of the business;
5. A USGS topographic map showing the facility location extending to at least one mile beyond property boundary and the location of the discharge point(s);
6. The receiving waters of the discharge;
7. The actual or projected wastewater flow rate (typical volume, duration of discharges, and number of discharges per day/week) and the number of outfalls;
8. If the type of water treatment plant is conventional, reverse osmosis, or a combination of both;
9. If this facility currently has an existing VPDES permit, and if so, the permit number;
10. If the existing VPDES permit contains a ground water monitoring plan requirement and, if so, submit a copy of the DEQ approved groundwater monitoring plan;
11. Indicate if the settling basins, lagoons, or both are earthen lined, and if so, whether the units have a permeability of no greater than 10^{-6} cm/sec;
12. The results of the whole effluent toxicity evaluation required by 9VAC25-860-50 A 3;
13. A schematic drawing showing the source(s) of water used on the property and the conceptual design of the methods of treatment and disposal of wastewater;
14. Information on chemicals used in the treatment, to include (i) description of chemical, and (ii) proposed or actual schedule and quantity of chemical usage;
15. A description of how solids and residue from the settling basins are disposed; and
16. The following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

The registration statement shall be signed in accordance with 9VAC25-31-110.

9VAC25-860-70. General permit.

Any owner whose registration statement is accepted by the board will receive the following permit and shall comply with the requirements therein and be subject to all requirements of 9VAC25-31.

General Permit No.: VAG64

Effective Date: December 24, 2008

Expiration Date: December 23, 2013

GENERAL PERMIT FOR POTABLE WATER TREATMENT PLANTS**AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE VIRGINIA STATE WATER CONTROL LAW**

In compliance with the provisions of the Clean Water Act, as amended, and pursuant to the State Water Control Law and regulations adopted pursuant thereto, owners/operators of potable water treatment plants are authorized to discharge to surface waters within the boundaries of the Commonwealth of Virginia, except those specifically named in board regulations or policies that prohibit such discharges.

The authorized discharge shall be in accordance with this cover page, Part I - Effluent Limitations and Monitoring Requirements, and Part II - Conditions Applicable To All VPDES Permits, as set forth herein.

PART I**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.**

1. During the period beginning with the permittee's coverage under this general permit and lasting until the permit's expiration date, the permittee is authorized to discharge wastewater originating from a potable water treatment plant from outfall(s):

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
	Monthly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NL	1/ Month ⁽⁴⁾	Estimate
pH (SU)	NA	6.0 ⁽¹⁾	9.0 ⁽¹⁾	1/ Month ⁽⁴⁾	Grab
Total Suspended Solids (mg/l)	30	NA	60	1/ Month ⁽⁴⁾	5G/8HC ⁽²⁾
Total Residual Chlorine ⁽³⁾ (mg/l)	0.011	NA	0.011	1/ Month ⁽⁴⁾	Grab

NL - No Limitation, monitoring requirement only

NA - Not applicable

⁽¹⁾Where the Water Quality Standards (9VAC25-260) establish alternate standards for pH in waters receiving the discharge, those standards shall be the maximum and minimum effluent limitations.

⁽²⁾5G/8HC - Eight-hour composite - Consisting of five grab samples collected at hourly intervals until the discharge ceases, or until a minimum of five grab samples have been

collected. Samples shall be comprised of wastewater discharged during all phases of wastewater generation, including back wash, etc.

⁽³⁾ Total residual chlorine limit shall only be applicable to facilities discharging to surface waters that use chlorine in the treatment process.

⁽⁴⁾ Monitoring frequency shall be reduced to 1/quarter upon written notification from the DEQ regional office. Reports of quarterly monitoring shall be submitted to the DEQ regional office no later than the 10th day of April, July, October and January. Reference special condition no. 4.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

2. During the period beginning with the permittee's coverage under this general permit and lasting until the permit's expiration date, the permittee is authorized to discharge wastewater originating from a reverse osmosis potable water treatment plant from outfall(s):

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
	Monthly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NL	1/ Month ⁽³⁾	Estimate
pH (SU)	NA	6.0 ⁽¹⁾	9.0 ⁽¹⁾	1/ Month ⁽³⁾	Grab
Total Dissolved Solids (mg/l)	NA	NA	NL	1/ Month ⁽³⁾	5G/8HC ⁽²⁾
Dissolved Oxygen (mg/l)	NA	4.0 ⁽¹⁾	NA	1/ Month ⁽³⁾	Grab

NL - No limitation, monitoring requirement only

NA - Not applicable

⁽¹⁾ Where the Water Quality Standards (9 VAC 25-260) establish alternate standards for pH and dissolved oxygen in waters receiving the discharge, those standards shall be the maximum and minimum effluent limitations.

⁽²⁾ 5G/8HC - Eight-hour composite - Consisting of five grab samples collected at hourly intervals until the discharge ceases, or until a minimum of five grab samples have been collected. Samples shall be comprised of wastewater discharged during all phases of wastewater generation, including back wash, etc.

⁽³⁾ Monitoring frequencies shall be reduced to 1/quarter upon written notification from the DEQ regional office. Reports of quarterly monitoring shall be submitted to the DEQ regional office no later than the 10th day of April, July, October and January. Reference special condition no. 4.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

B. Special conditions.

1. Inspection of the effluent, and maintenance of the wastewater treatment facility, shall be performed daily. Documentation of the inspection and maintenance shall be

recorded in an operational log. This operational log shall be made available for review by the department personnel upon request.

2. No domestic sewage discharges to surface waters are permitted under this general permit.

3. Adding chemicals to the water or waste that may be discharged, other than those listed on the owner's accepted registration statement, is prohibited. Prior approval shall be obtained from Department of Environmental Quality before any changes are made to the chemical(s), in order to assure protection of water quality and beneficial uses of the waters receiving the discharge.

4. Monitoring frequency shall be 1/month unless a written request is sent to the appropriate regional office to reduce monitoring to 1/quarter. Upon written notification from DEQ regional office, monitoring frequency shall be reduced to 1/quarter. Should the permittee be issued a warning letter related to violation of effluent limitations, a notice of violation, or be subject of an active enforcement action, monitoring frequency shall revert to 1/month upon issuance of the letter of notice of initiation of the enforcement action, and remain in effect until the permit's expiration date.

5. The permittee shall comply with the following solids management plan that includes:

- a. A prohibition on the discharge of floating solids or visible foam in other than trace amounts.
- b. A requirement to clean settling basins frequently in order to achieve effective treatment.
- c. A requirement that all solids shall be handled, stored and disposed of so as to prevent a discharge to state waters.

6. If the discharge is into a municipal separate storm sewer, the permittee is required to notify the owner of the municipal separate storm sewer system of the existence of the discharge within 30 days of coverage under the general permit, and provide the following information: the name of the facility, a contact person and phone number, and the location of the discharge.

7. The permittee shall notify the department as soon as he knows or has reason to believe:

a. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

- (1) One hundred micrograms per liter;
- (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony;
- (3) Five times the maximum concentration value reported for that pollutant in the permit application; or
- (4) The level established by the board.

b. That any activity has occurred or will occur that would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant that is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

- (1) Five hundred micrograms per liter;
- (2) One milligram per liter for antimony;

- (3) Ten times the maximum concentration value reported for that pollutant in the permit application; or
 - (4) The level established by the board.
8. If a DEQ-approved ground water monitoring plan was submitted with the registrations statement the permittee shall continue sampling and reporting in accordance with the plan. The approved plan shall be an enforceable part of this permit.
9. Compliance reporting under Part I A.
- a. The quantification levels (QL) shall be as follows:

Effluent Characteristic	Quantification Level
Chlorine	0.10 mg/l
TSS	1.0 mg/l

- b. Reporting.
 - (1) Monthly average. Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in subdivision 9 a shall be determined as follows: all concentration data below the QL listed above shall be treated as zero. All concentration data equal to or above the QL listed in subdivision 9 a shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL, then the average shall be reported as "<QL." If reporting for quantity is required on the DMR and the calculated concentration is <QL, then report "<QL" for the quantity. Otherwise use the calculated concentration.
 - (2) Daily maximum. Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in subdivision 9 a above shall be determined as follows: all concentration data below the QL listed in subdivision 9 a above shall be treated as zero. All concentration data equal to or above the QL shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL, then the average shall be reported as "<QL." If reporting for quantity is required on the DMR and the calculated concentration is <QL, then report "<QL" for the quantity. Otherwise use the calculated concentration.
 - c. Any single datum required shall be reported as "<QL" if it is less than the QL in subdivision 9 a. Otherwise, the numerical value shall be reported.
 - d. The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.
10. Operation and Maintenance Manual Requirement.
- a. The permittee shall develop an Operation and Maintenance (O & M) Manual for the treatment works. This manual shall detail the practices and procedures that will be followed to ensure compliance with the requirements of this permit. The manual shall be submitted to the DEQ regional office for approval within 90 days of the date of coverage under the general permit or completion of construction. The permittee

shall operate the treatment works in accordance with the approved O & M Manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

- (1) Techniques to be employed in the collection, preservation, and analysis of effluent samples;
- (2) Discussion of best management practices, if applicable;
- (3) Treatment system design, treatment system operation, routine preventive maintenance of units within the treatment system, critical spare parts inventory and record keeping;
- (4) A plan for the management and/or disposal of waste solids and residues; and
- (5) Procedures for measuring and recording the duration and volume of treated wastewater discharged.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O & M Manual shall be deemed a violation of the permit.

b. If an approved O & M Manual is already on file with DEQ, the permittee shall review the existing Operations and Maintenance (O & M) Manual and notify the DEQ regional office in writing within 90 days of the date of coverage under the general permit whether it is still accurate and complete. If the O & M Manual is no longer accurate and complete, a revised O & M Manual shall be submitted for approval to the DEQ regional office within 90 days of [the date of coverage under the general permit] or with the above required notification. The permittee will maintain an accurate, approved operation and maintenance manual for the treatment works. This manual shall detail the practices and procedures that will be followed to ensure compliance with the requirements of the permit. The permittee shall operate the treatment works accordance with the approved O&M Manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

- (1) Techniques to be employed in the collection, preservation, and analysis of effluent samples;
- (2) Discussion of best management practices, if applicable;
- (3) Treatment works design, treatment works operation, routine preventative maintenance of units within the treatment system, critical spare parts inventory and record keeping;
- (4) A plan for the management and/or disposal of waste solids and residues; and
- (5) Procedures for measuring and recording the duration and volume of treated wastewater discharged.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O & M Manual shall be deemed a violation of the permit.

PART II
CONDITIONS APPLICABLE TO ALL VPDES PERMITS.

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under 40 CFR Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records.

1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the registration statement for this permit, for a period of at least three years from the date of the sample, measurement, report or request for coverage. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the board.

C. Reporting monitoring results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to the department's regional office.
2. Monitoring results shall be reported on a discharge monitoring report (DMR) or on forms provided, approved or specified by the department.
3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under 40 CFR Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the department.
4. Calculations for all limitations that require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to provide information. The permittee shall furnish to the department, within a reasonable time, any information that the board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the department upon request, copies of records required to be kept by this permit.

E. Compliance schedule reports. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized discharges. Except in compliance with this permit, or another permit issued by the board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of unauthorized discharges. Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F, or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of unusual or extraordinary discharges. If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing

and shall submit it to the department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of noncompliance. The permittee shall report any noncompliance that may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information that shall be reported within 24 hours under this paragraph:

- a. Any unanticipated bypass; and
- b. Any upset that causes a discharge to surface waters.

2. A written report shall be submitted within five days and shall contain:

- a. A description of the noncompliance and its cause;
- b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
- c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the department's regional office. Reports may be made by telephone or by fax. For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of planned changes.

1. The permittee shall give notice to the department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

- a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

(1) After promulgation of standards of performance under §306 of Clean Water Act that are applicable to such source; or

(2) After proposal of standards of performance in accordance with §306 of Clean Water Act that are applicable to such source, but only if the standards are promulgated in accordance with §306 within 120 days of their proposal;

- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
2. The permittee shall give advance notice to the department of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

K. Signatory requirements.

1. Registration statement. All registration statements shall be signed as follows:
- a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer mean: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
2. Reports, etc. All reports required by permits, and other information requested by the board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
- a. The authorization is made in writing by a person described in Part II K 1;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
 - c. The written authorization is submitted to the department.

3. Changes to authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to comply. The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under §307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under §405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall submit a new registration statement at least 90 days before the expiration date of the existing permit, unless permission for a later date has been granted by the board. The board shall not grant permission for registration statements to be submitted later than the expiration date of the existing permit.

N. Effect of a permit. This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State law. Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by §510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and hazardous substance liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under §§62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are

installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of solids or sludges. Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice.

a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least 10 days before the date of the bypass.

b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.

3. Prohibition of bypass.

a. Bypass is prohibited, and the board may take enforcement action against a permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part II U 2.

b. The board may approve an anticipated bypass, after considering its adverse effects, if the board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology-based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance

was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. An upset occurred and that the permittee can identify the cause(s) of the upset;
- b. The permitted facility was at the time being properly operated;
- c. The permittee submitted notice of the upset as required in Part II I; and
- d. The permittee complied with any remedial measures required under Part II S.

3. In any enforcement preceding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and entry. The permittee shall allow the director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit actions. Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:

- a. The current permittee notifies the department at least 30 days in advance of the proposed transfer of the title to the facility or property;
- b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
- c. The board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received,

the transfer is effective on the date specified in the agreement mentioned in Part II Y
2 b.

Z. Severability. The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby

2. GENERAL PERMIT FACT SHEET

FACT SHEET
ISSUANCE OF A GENERAL VPDES PERMIT
TO DISCHARGE TO STATE WATERS AND STATE
CERTIFICATION UNDER THE STATE WATER CONTROL LAW

The Virginia State Water Control Board has under consideration the issuance of a VPDES general permit for point source discharges from facilities discharging potable water treatment plant wastewater (SIC Code 4941-Water Supply) to the surface waters of the State of Virginia. This permit is a VPDES general permit covered under the National Pollutant Discharge Elimination System. Owners who wish to discharge under a general permit, must register for coverage under the new general permit.

Permit Number: VAG64

Name of Permittee: Any owner of a qualifying potable water treatment plant with point source discharges to the surface waters of the Commonwealth of Virginia.

Facility Location: Commonwealth of Virginia

Receiving Waters: Surface waters within the boundaries of the Commonwealth of Virginia, except those specifically named in Board Regulations or Policies which prohibit such discharges.

On the basis of preliminary review and application of lawful standards and regulations, the State Water Control Board proposes to issue the general VPDES permit subject to certain conditions. The Board has determined that this category of discharges is appropriately controlled under a general permit. The category of discharges to be included involves facilities with the same or similar types of operations and the facilities discharge the same or similar types of wastes. The draft general permit requires that all covered facilities meet standardized effluent limitations and monitoring requirements.

Persons may comment in writing or by mail to Department Environment Quality on the proposed permit action until July 11, 2007. Comments should be addressed to the contact person listed below. Comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered by the Board.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting George Cosby at:

Virginia Department of Environmental Quality
P.O. Box 10009
Richmond, Virginia 23240
(804) 698-4067
gecosby@deg.virginia.gov

A public hearing will be held on this draft permit. Notice of the public hearing will be published in newspapers and in the Virginia Register. Following the public hearing comment period, the Board will make determinations regarding the proposed permit action.

Activities Covered By This General Permit:

This general permit will cover point source discharges of potable water treatment plant wastewater (SIC Code 4941 – Water Supply) to surface waters of the Commonwealth of Virginia by direct point sources. The type of facilities to be covered shall include wastewater generated from clarifier underflow, sludge blowdown and particulate filter backwash from plain

purification and lime-soda softening process, iron filter backwash wastewater from iron and manganese removal processes, reverse osmosis and micro filtration plants.

Facilities that are subject to the requirements of 9 VAC 25-820-70, Part I.G.1 (*General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia - Requirement to Register*), will usually also have an individual permit to address tracking of waste load offsets or technology-based annual concentration limits. These facilities are excluded from coverage under this general permit, since the discharge of potable water treatment plant wastewater will be included as part of the individual permit.

The pollutants in the wastewater that require treatment are total suspended solids, pH, total residual chlorine, total dissolved solids, and dissolved oxygen. A facility is ineligible for coverage under this GP if DEQ becomes aware of any data indicating the potential for water quality impacts.

As a pre-requisite for coverage under this general permit the facility must demonstrate that there is not a reasonable potential for toxicity by performing a Whole Effluent Toxicity (WET) evaluation. The results of the WET evaluation will be submitted with the registration statement and reviewed by DEQ Regional staff for compliance. If the WET evaluation displays a reasonable potential for toxicity the registration statement for the GP will be denied and the applicant will be requested to obtain an individual permit. The WET consists of a minimum of 4 sets (set = vertebrate and invertebrate) of acute or chronic tests that reflect the characteristics of the current effluent using following tests and organisms.

For an intermittent or batch discharger - 48 hour static acute toxicity test:

Freshwater organisms - *Pimephales promelas* (vertebrates) or *Oncorhynchus mykiss* (vert)
(for cold water) *Ceriodaphnia dubia* (invertebrates)
Saltwater organisms - *Cyprinodon variegatus* (vertebrates)
Americamysis bahia (invertebrates)

For a continuous discharger:

Freshwater

7-Day Chronic Static Renewal Larval Survival and Growth Test with *Pimephales promelas* (vertebrates)

3-Brood Chronic Static Renewal Survival and Reproduction Test with *Ceriodaphnia dubia* (invertebrates)

Saltwater

7-Day Chronic Static Renewal Survival, Growth and Fecundity Test with *Americamysis bahia*

7-Day Chronic Static Renewal Larval Survival and Growth Test with *Cyprinodon variegatus*

Freshwater organisms are used where the salinity of the receiving water is less than 1%. Where the salinity of the receiving water is greater than 1% but less than 5% either freshwater or saltwater organisms may be used. Saltwater organisms are used where the salinity is greater than 5%.

There shall be a minimum of 30 days between sets of tests, and test procedures shall follow 40 CFR Part 136 which references the EPA guidance manuals for Whole Effluent Toxicity testing. The data will be evaluated statistically to see if there is reasonable potential for toxicity; if such a potential exists, the facility must either continue operation under its existing individual VPDES permit, or apply for an individual VPDES permit.

Individual permits that contain a groundwater monitoring plan can be covered under this GP. The permittee will be required to continue to sample and report in accordance with approved ground water monitoring plan approved through the individual permit submitted in the accepted registration statement.

Proposed Limitations and Monitoring Requirements:

A. Effluent limitations for potable water treatment plant wastewater (SIC Code 4941-Water Supply) facilities are as follows:

<u>Parameter</u>	<u>Limitation</u>	<u>Monitoring</u>
Flow	Monitoring	Estimate
pH	9.0 max., 6.0 min. ¹	Grab
Total Suspended Solids	30 mg/L avg., 60 mg/l max.	5G/8HC ²
Total Residual Chlorine ³	0.011 mg/l avg. and 0.011 mg/l max.	Grab

B. Effluent limitations for reverse osmosis potable water treatment plant wastewater (SIC Code 4941-Water Supply) facilities are as follows:

<u>Parameter</u>	<u>Limitation</u>	<u>Monitoring</u>
Flow	Monitoring	Estimate
pH	9.0 max., 6.0 min. ¹	Grab
Dissolved Oxygen	4.0 min.	Grab
Total Dissolved Solids	NL mg/l max ⁵	5G/8HC ²

¹ Where the Water Quality Standards (9 VAC 25-260) establish alternate standards for pH and dissolved oxygen in waters receiving the discharge, those standards shall be the maximum and minimum effluent limitations.

² Eight Hour Composite - Consisting of five grab samples collected at hourly intervals until the discharge ceases, or until a minimum of five grab samples have been collected. Samples shall be comprised of wastewater discharged during all phases of wastewater generation, including backwash, etc.

³ Total Residual Chlorine limit shall only be applicable to facilities discharging to surface waters that use chlorine in the treatment process.

⁴ Monitoring frequency shall be once per month. Monitoring frequency can be reduced to once per quarter upon written notification from DEQ Regional Office. Reports of quarterly monitoring shall be submitted to the DEQ Regional Office no later than the 10th day of April, July, October and January. Reference special condition no. 4.

⁵ NL is defined as no limitation, monitoring and reporting are required.

The permittee shall maintain records of cleaning and maintenance of all treatment units. These records shall be made available to DEQ personnel upon request.

Basis for Proposed Effluent Limitations and Monitoring Requirements

In developing the proposed effluent limitations and special conditions the following information was reviewed. DEQ's permit manual currently contains standard effluent limits and special permit conditions to be used for individual permits, and several other states issue general permits, for discharges from potable water treatment plant wastewater (SIC Code 4941-Water Supply) facilities. As no federal effluent guidelines currently exist for discharges from water treatments plants, the monitoring requirements and limitations in this permit are based on best professional judgment and the water quality standards in 9 VAC 25-260 as amended.

As determined by the nature of the business, the parameters to be limited or monitored in this general VPDES permit for potable water treatment plant discharges are pH, total residual chlorine and total suspended solids. The parameters for reverse osmosis discharges are pH,

dissolved oxygen, and total dissolved solids. The pH limitation is based upon Virginia's stream water quality standards (9 VAC 25-260-50 and 9 VAC 25-260-380). The total suspended solids, and total dissolved solids parameters are based on best professional judgment (9 VAC 25-31-210). The dissolved oxygen and total residual chlorine parameter are based on water quality standards for the type of treatment employed by these systems. Complying with these parameters is an indication that the treatment system is being operated and maintained properly and is producing an acceptable quality effluent.

Monitoring frequency shall be once per month. A WTP that is applying for general permit coverage, and is in compliance with their individual VPDES permit containing monitoring frequencies of once per quarter can continue monitoring frequencies of once per quarter under the general permit upon written notification from DEQ Regional Office. Should the WTP be issued a warning letter related to violation of effluent limitations, a notice of violation, or be subject of an active enforcement action, monitoring frequency shall revert to once per month upon issuance of the letter of notice of initiation of the enforcement action, and remain in effect until the permit's expiration date.

WTPs may use either ground water or surface water as their source water and processes can vary depending on the treatment the source water requires. Ground water is most frequently treated to remove dissolved iron and manganese and typically includes oxidation (i.e. ozonation, chlorination, or addition of potassium permanganate) to precipitate the iron and manganese followed by filtration to remove the iron and manganese oxides. There are Water Quality Criteria for iron and manganese is the public drinking water standard at the intake of a public water supply (PWS). The limitations for iron and manganese were not required in this general permit. Reverse osmosis plants with iron and manganese in the discharge to a PWS should be covered by an individual VPDES permit.

Surface water is most frequently treated by filtration to remove suspended solids and may incorporate presedimentation and sedimentation basins before filtration. Precipitation, coagulation, and flocculation are frequently used to increase the effectiveness of sedimentation and filtration. Aluminum sulfate (alum) is the most common additive and is used for coagulation. Polymers are another common additive that may be used to enhance coagulation, flocculation, or filtration. Chlorination may be used before filtration as an oxidizing agent for precipitation and to remove taste and odor. Chlorine is often added after filtration for disinfection purposes, producing finished water for distribution to customers.

The wastewater treatment systems commonly utilized at these facilities consist of coagulation, sedimentation, filtration, and chlorination or disinfection. These wastewater treatment systems produce an acceptable quality effluent and operate well when maintained properly. Therefore, the permit requires the owner to inspect the treatment system and the quality of the effluent daily and to maintain a log of the treatment maintenance.

The plants that are proposed to be covered under this general permit are plain purification, lime soda softening, micro filtration, reverse osmosis, and iron and manganese removal.

Proposed Special Conditions

1. Inspection of the effluent, and maintenance of the wastewater treatment facility shall be performed daily. Documentation of the inspection and maintenance shall be recorded in an Operational Log. This operational log shall be made available for review by the Department personnel upon request.

[9 VAC 25-31-10, and 40 CFR 122.41(e) require proper operation and maintenance of the permitted facility.]

2. No domestic sewage discharges to surface waters are permitted under this general permit.

[The effluent limitations do not address pollutants typical of treated sewage, therefore no sewage discharge to surface waters are permitted under the general permit.]

3. Adding chemicals to the water or waste which may be discharged, other than those listed on the owner's accepted registration statement is prohibited. Prior approval shall be obtained from Department of Environmental Quality before any changes are made to the chemical(s), in order to assure protection of water quality and beneficial uses of the waters receiving the discharge.

4. Monitoring frequency shall be 1/month unless a written request is sent to the appropriate regional office to reduce monitoring to 1/quarter. Upon written notification from DEQ Regional Office, monitoring frequency shall be reduced to 1/quarter. Should the permittee be issued a warning letter related to violation of effluent limitations, a notice of violation, or be subject of an active enforcement action, monitoring frequency shall revert to 1/month upon issuance of the letter of notice of initiation of the enforcement action, and remain in effect until the permit's expiration date.

[This language is included to grant existing facilities a reduction in monitoring frequency based on a DEQ Regional Office review of compliance history.]

5. The permit establishes a solids management plan that includes:

- a. A prohibition on the discharge of floating solids or visible foam in other than trace amounts,
- b. A requirement to clean settling basins frequently in order to achieve effective treatment.
- c. A requirement that all solids shall be handled, stored and disposed of so as to prevent a discharge to state waters.

[This management plan will prohibit the discharge of solids into State waters unless authorized by permit and require the use of best management practices where applicable to control or abate the discharge of pollutants.]

6. If the discharge is into a municipal separate storm sewer, the permittee is required to notify the owner of the municipal separate storm sewer system of the existence of the discharge within 30 days of coverage under the general permit, and provide the following information: the name of the facility; a contact person and phone number; and the location of the discharge.

[Required by VPDES Permit Regulation, 9 VAC 25-31-120 Storm water discharges, paragraph 3.]

7. The permittee shall notify the Department as soon as they know or have reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(1) 100 ug/L;

(2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony;

- (3) Five times the maximum concentration value reported for that pollutant in the permit application; or
- (4) The level established by the Board.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (1) Five hundred micrograms per liter;
 - (2) One milligram per liter for antimony;
 - (3) Ten times the maximum concentration value reported for that pollutant in the permit application; or
 - (4) The level established by the Board.

[Required by VPDES Permit Regulation, 9VAC 25-31-200 A for all manufacturing, commercial, mining and silvicultural dischargers.]

- 8. If a DEQ approved ground water monitoring plan was submitted with the registrations statement the permittee shall continue sampling and reporting in accordance with the plan. The approved plan shall be an enforceable part of this permit.

[The purpose of the ground water monitoring plan is to determine if the system integrity is being maintained and to indicate if activities at the site are resulting in violations of the Board's Ground Water Standards (9 VAC 25-260-190).]

- 9. Compliance reporting under Part I A
 - a. The quantification levels (QL) shall be as follows:

<u>Effluent Characteristic</u>	<u>Quantification Level</u>
Chlorine	0.10 mg/l
TSS	1.0 mg/l

- b. Reporting

Monthly Average -- Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in a. above shall be determined as follows: All concentration data below the QL listed above shall be treated as zero. All concentration data equal to or above the QL listed in a. above shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as "calculated". If all data are below the QL, then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the calculated concentration is <QL, then report "<QL" for the quantity. Otherwise use the calculated concentration.

Daily Maximum -- Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in a., above shall be determined as follows: All concentration data below the QL listed in a. above shall be treated as zero. All concentration data equal to or above the QL shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL, then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the calculated concentration is

<QL, then report "<QL" for the quantity. Otherwise use the calculated concentration.

- c. Any single datum required shall be reported as "<QL" if it is less than the QL in a. above. Otherwise the numerical value shall be reported.
- d. The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

[Authorized by VPDES Permit Regulation, 9 VAC 25-31-190 J 4 and 220 I. This condition is necessary when toxic pollutants are monitored by the permittee and a maximum level of quantification and /or a specific analytical method is required in order to assess compliance with a permit limit or to compare effluent quality with a numeric criterion. The condition also establishes protocols for calculation of reported values.]

10. **Operation and Maintenance Manual Requirement.** The permittee shall develop an Operations and Maintenance (O & M) Manual for the treatment works. This manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. The manual shall be submitted to the DEQ Regional Office for approval within 90 days of **the date of coverage under the general permit OR completion of construction**. The permittee shall operate the treatment works in accordance with the approved O & M Manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

- a. Techniques to be employed in the collection, preservation, and analysis of effluent samples;
- b. Discussion of Best Management Practices, if applicable;
- c. Treatment system design, treatment system operation, routine preventive maintenance of units within the treatment system, critical spare parts inventory and record keeping;
- d. A plan for the management and/or disposal of waste solids and residues; and
- e. Procedures for measuring and recording the duration and volume of treated wastewater discharged.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O & M Manual shall be deemed a violation of the permit.

OR (*if an approved O & M Manual is already on file with DEQ*) The permittee shall review the existing Operations and Maintenance (O & M) Manual and notify the DEQ Regional Office in writing within 90 days of **the date of coverage under the general permit** whether it is still accurate and complete. If the O & M Manual is no longer accurate and complete, a revised O & M Manual shall be submitted for approval to the DEQ Regional Office within 90 days of **the date of coverage under the general permit** or with the above required notification. The permittee will maintain an accurate, approved operation and maintenance manual for the treatment works. This manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of the permit. The permittee shall operate the treatment works accordance with the approved O&M Manual. This manual shall include, but not necessarily be

limited to, the following items, as appropriate:

- a. Techniques to be employed in the collection, preservation, and analysis of effluent samples;
- b. Discussion of Best Management Practices, if applicable;
- c. Treatment works design, treatment works operation, routine preventative maintenance of units within the treatment system, critical spare parts inventory and record keeping;
- d. A plan for the management and/or disposal of waste solids and residues; and
- e. Procedures for measuring and recording the duration and volume of treated wastewater discharged.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O & M Manual shall be deemed a violation of the permit.

[Required by Code of Virginia § 62.1-44.16; VPDES Permit Regulation, 9VAC25-31-190E, and 40 CFR 122.41(e). These require proper operation and maintenance of the permitted facility. Compliance with an approved O & M manual ensures this.]

Administrative

The general permit will have a fixed term of five years. Every authorization under this general permit will expire at the same time and all authorizations will be renewed on the same date, provided a complete registration statement has been filed prior to the general permit's expiration date.

All owners/operators desiring to be covered by this general permit must register with the Department by filing a registration statement and payment of applicable fees. The registration statement shall be submitted and a notification of coverage issued prior to any discharges or other activities for which this permit is required. Potable water treatment plant wastewater (SIC Code 4941-Water Supply) facilities that are discharging to surface waters on the effective date of this general permit and which have not been issued an individual VPDES permit, may submit the registration statement.

Existing operations with individual VPDES permits that wish to seek coverage under the proposed general permit would have to file a registration statement at least 90 days prior to the expiration date of the individual VPDES permit. For all new dischargers that will begin activities after the effective date of this permit, the registration statement shall be filed at least 60 days prior to the commencement of operation of the potable water treatment plant wastewater (SIC Code 4941-Water Supply) facility.

This general permit does not cover activities or discharges covered by an individual VPDES permit until the individual permit has expired or has been revoked. Any person conducting an activity covered by an individual permit, which could be covered by this general permit, may request that the individual permit be revoked and register for coverage under this general permit. Any owner or operator not wishing to be covered or limited by this general permit may make application for an individual VPDES permit, in accordance with VPDES procedures, stating the reasons supporting the request.

This general permit does not apply to any new or increased discharge that will result in significant effects to the receiving waters. That determination is made in accordance with the

State Water Control Board's Antidegradation Policy contained in the Virginia Water Quality Standards, 9VAC 25-260-30 .

This general permit will maintain the Water Quality Standards adopted by the Board.

All facilities that the Department believes are eligible for coverage under this general permit will be authorized to discharge under the terms and conditions of the permit after a complete registration statement is submitted, the applicable permit fee is paid, and the Department sends a copy of the general permit to the applicant. If this general permit is inappropriate, the applicant will be so notified.

Potable water treatment plant wastewater (SIC Code 4941-Water Supply) facilities with point source discharges that do not qualify for coverage under this general permit may make application for an individual VPDES permit.

3. GENERAL PERMIT PAGES

General Permit No.: VAG64
Effective Date: December 24, 2008
Expiration Date: December 23, 2013

GENERAL PERMIT FOR POTABLE WATER TREATMENT PLANTS

AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE
ELIMINATION SYSTEM AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act, as amended, and pursuant to the State Water Control Law and regulations adopted pursuant thereto, owners/operators of potable water treatment plants are authorized to discharge to surface waters within the boundaries of the Commonwealth of Virginia, except those specifically named in board regulations or policies that prohibit such discharges.

The authorized discharge shall be in accordance with this cover page, Part I - Effluent Limitations and Monitoring Requirements, and Part II - Conditions Applicable To All VPDES Permits, as set forth herein.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

1. During the period beginning with the permittee's coverage under this general permit and lasting until the permit's expiration date, the permittee is authorized to discharge wastewater originating from a potable water treatment plant from outfall(s):

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
	Monthly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NL	1/ Month ⁽⁴⁾	Estimate
pH (SU)	NA	6.0 ⁽¹⁾	9.0 ⁽¹⁾	1/ Month ⁽⁴⁾	Grab
Total Suspended Solids (mg/l)	30	NA	60	1/ Month ⁽⁴⁾	5G/8HC ⁽²⁾
Total Residual Chlorine ⁽³⁾ (mg/l)	0.011	NA	0.011	1/ Month ⁽⁴⁾	Grab

NL - No Limitation, monitoring requirement only

NA - Not applicable

⁽¹⁾Where the Water Quality Standards (9VAC25-260) establish alternate standards for pH in waters receiving the discharge, those standards shall be the maximum and minimum effluent limitations.

⁽²⁾5G/8HC - Eight-hour composite - Consisting of five grab samples collected at hourly intervals until the discharge ceases, or until a minimum of five grab samples have been collected. Samples shall be comprised of wastewater discharged during all phases of wastewater generation, including back wash, etc.

⁽³⁾ Total residual chlorine limit shall only be applicable to facilities discharging to surface waters that use chlorine in the treatment process.

⁽⁴⁾Monitoring frequency shall be reduced to 1/quarter upon written notification from the DEQ regional office. Reports of quarterly monitoring shall be submitted to the DEQ regional office no later than the 10th day of April, July, October and January. Reference special condition no. 4.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

2. During the period beginning with the permittee's coverage under this general permit and lasting until the permit's expiration date, the permittee is authorized to discharge wastewater originating from a reverse osmosis potable water treatment plant from outfall(s):

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
	Monthly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NL	NA	NL	1/ Month ⁽³⁾	Estimate
pH (SU)	NA	6.0 ⁽¹⁾	9.0 ⁽¹⁾	1/ Month ⁽³⁾	Grab
Total Dissolved Solids (mg/l)	NA	NA	NL	1/ Month ⁽³⁾	5G/8HC ⁽²⁾
Dissolved Oxygen (mg/l)	NA	4.0 ⁽¹⁾	NA	1/ Month ⁽³⁾	Grab

NL - No limitation, monitoring requirement only

NA - Not applicable

⁽¹⁾ Where the Water Quality Standards (9 VAC 25-260) establish alternate standards for pH and dissolved oxygen in waters receiving the discharge, those standards shall be the maximum and minimum effluent limitations.

⁽²⁾ 5G/8HC - Eight-hour composite - Consisting of five grab samples collected at hourly intervals until the discharge ceases, or until a minimum of five grab samples have been collected. Samples shall be comprised of wastewater discharged during all phases of wastewater generation, including back wash, etc.

⁽³⁾ Monitoring frequencies shall be reduced to 1/quarter upon written notification from the DEQ regional office. Reports of quarterly monitoring shall be submitted to the DEQ regional office no later than the 10th day of April, July, October and January. Reference special condition no. 4.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

B. Special conditions.

1. Inspection of the effluent, and maintenance of the wastewater treatment facility, shall be performed daily. Documentation of the inspection and maintenance shall be recorded in an operational log. This operational log shall be made available for review by the department personnel upon request.

2. No domestic sewage discharges to surface waters are permitted under this general permit.

3. Adding chemicals to the water or waste that may be discharged, other than those listed on the owner's accepted registration statement, is prohibited. Prior approval shall be obtained from Department of Environmental Quality before any changes are made to the chemical(s), in order to assure protection of water quality and beneficial uses of the waters receiving the discharge.

4. Monitoring frequency shall be 1/month unless a written request is sent to the appropriate regional office to reduce monitoring to 1/quarter. Upon written notification from DEQ regional office, monitoring frequency shall be reduced to 1/quarter. Should the permittee be issued a warning letter related to violation of effluent limitations, a notice of violation, or be subject of an active enforcement action, monitoring frequency shall revert to 1/month upon issuance of the letter of notice of initiation of the enforcement action, and remain in effect until the permit's expiration date.

5. The permittee shall comply with the following solids management plan that includes:
 - a. A prohibition on the discharge of floating solids or visible foam in other than trace amounts.
 - b. A requirement to clean settling basins frequently in order to achieve effective treatment.
 - c. A requirement that all solids shall be handled, stored and disposed of so as to prevent a discharge to state waters.
6. If the discharge is into a municipal separate storm sewer, the permittee is required to notify the owner of the municipal separate storm sewer system of the existence of the discharge within 30 days of coverage under the general permit, and provide the following information: the name of the facility, a contact person and phone number, and the location of the discharge.
7. The permittee shall notify the department as soon as he knows or has reason to believe:
 - a. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter;
 - (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony;
 - (3) Five times the maximum concentration value reported for that pollutant in the permit application; or
 - (4) The level established by the board.
 - b. That any activity has occurred or will occur that would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant that is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (1) Five hundred micrograms per liter;
 - (2) One milligram per liter for antimony;
 - (3) Ten times the maximum concentration value reported for that pollutant in the permit application; or
 - (4) The level established by the board.
8. If a DEQ-approved ground water monitoring plan was submitted with the registrations statement the permittee shall continue sampling and reporting in accordance with the plan. The approved plan shall be an enforceable part of this permit.
9. Compliance reporting under Part I A.

- a. The quantification levels (QL) shall be as follows:

<u>Effluent Characteristic</u>	<u>Quantification Level</u>
Chlorine	0.10 mg/l
TSS	1.0 mg/l

- b. Reporting.

- (1) Monthly average. Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in subdivision 9 a shall be determined as follows: all concentration data below the QL listed above shall be treated as zero. All concentration data equal to or above the QL listed in subdivision 9 a shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL, then the average shall be reported as "<QL." If reporting for quantity is required on the DMR and the calculated concentration is <QL, then report "<QL" for the quantity. Otherwise use the calculated concentration.
- (2) Daily maximum. Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in subdivision 9 a above shall be determined as follows: all concentration data below the QL listed in subdivision 9 a above shall be treated as zero. All concentration data equal to or above the QL shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL, then the average shall be reported as "<QL." If reporting for quantity is required on the DMR and the calculated concentration is <QL, then report "<QL" for the quantity. Otherwise use the calculated concentration.
- c. Any single datum required shall be reported as "<QL" if it is less than the QL in subdivision 9 a. Otherwise, the numerical value shall be reported.
- d. The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.
10. Operation and Maintenance Manual Requirement.
- a. The permittee shall develop an Operation and Maintenance (O & M) Manual for the treatment works. This manual shall detail the practices and procedures that will be followed to ensure compliance with the requirements of this permit. The manual shall be submitted to the DEQ regional office for approval within 90 days of the date of coverage under the general permit or completion of construction. The permittee shall operate the treatment works in accordance with the approved O & M Manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:
- (1) Techniques to be employed in the collection, preservation, and analysis of effluent samples;
 - (2) Discussion of best management practices, if applicable;
 - (3) Treatment system design, treatment system operation, routine preventive maintenance of units within the treatment system, critical spare parts inventory and record keeping;
 - (4) A plan for the management and/or disposal of waste solids and residues; and
 - (5) Procedures for measuring and recording the duration and volume of treated wastewater discharged.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O & M Manual shall be deemed a violation of the permit.

b. If an approved O & M Manual is already on file with DEQ, the permittee shall review the existing Operations and Maintenance (O & M) Manual and notify the DEQ regional office in writing within 90 days of the date of coverage under the general permit whether it is still accurate and complete. If the O & M Manual is no longer accurate and complete, a revised O & M Manual shall be submitted for approval to the DEQ regional office within 90 days of [the date of coverage under the general permit] or with the above required notification. The permittee will maintain an accurate, approved operation and maintenance manual for the treatment works. This manual shall detail the practices and procedures that will be followed to ensure compliance with the requirements of the permit. The permittee shall operate the treatment works accordance with the approved O&M Manual. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

- (1) Techniques to be employed in the collection, preservation, and analysis of effluent samples;
- (2) Discussion of best management practices, if applicable;
- (3) Treatment works design, treatment works operation, routine preventative maintenance of units within the treatment system, critical spare parts inventory and record keeping;
- (4) A plan for the management and/or disposal of waste solids and residues; and
- (5) Procedures for measuring and recording the duration and volume of treated wastewater discharged.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O & M Manual shall be deemed a violation of the permit.

PART II
CONDITIONS APPLICABLE TO ALL VPDES PERMITS.

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under 40 CFR Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records.

1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the registration statement for this permit, for a period of at least three years from the date of the sample, measurement, report or request for coverage. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the board.

C. Reporting monitoring results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to the department's regional office.
2. Monitoring results shall be reported on a discharge monitoring report (DMR) or on forms provided, approved or specified by the department.
3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under 40 CFR Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the department.
4. Calculations for all limitations that require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to provide information. The permittee shall furnish to the department, within a reasonable time, any information that the board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the department upon request, copies of records required to be kept by this permit.

E. Compliance schedule reports. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized discharges. Except in compliance with this permit, or another permit issued by the board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of unauthorized discharges. Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F, or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of unusual or extraordinary discharges. If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the department by telephone after the discovery of the discharge. This

notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of noncompliance. The permittee shall report any noncompliance that may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information that shall be reported within 24 hours under this paragraph:

- a. Any unanticipated bypass; and
- b. Any upset that causes a discharge to surface waters.

2. A written report shall be submitted within five days and shall contain:

- a. A description of the noncompliance and its cause;
- b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
- c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the department's regional office. Reports may be made by telephone or by fax. For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

J. Notice of planned changes.

1. The permittee shall give notice to the department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

- a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

(1) After promulgation of standards of performance under §306 of Clean Water Act that are applicable to such source; or

- (2) After proposal of standards of performance in accordance with §306 of Clean Water Act that are applicable to such source, but only if the standards are promulgated in accordance with §306 within 120 days of their proposal;
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
2. The permittee shall give advance notice to the department of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.
- K. Signatory requirements.
1. Registration statement. All registration statements shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer mean: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
 2. Reports, etc. All reports required by permits, and other information requested by the board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part II K 1;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of

equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

c. The written authorization is submitted to the department.

3. Changes to authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to comply. The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under §307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under §405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall submit a new registration statement at least 90 days before the expiration date of the existing permit, unless permission for a later date has been granted by the board. The board shall not grant permission for registration statements to be submitted later than the expiration date of the existing permit.

N. Effect of a permit. This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State law. Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by §510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and hazardous substance liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under §§62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of solids or sludges. Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice.

a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least 10 days before the date of the bypass.

b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.

3. Prohibition of bypass.

a. Bypass is prohibited, and the board may take enforcement action against a permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part II U 2.

b. The board may approve an anticipated bypass, after considering its adverse effects, if the board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology-based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. An upset occurred and that the permittee can identify the cause(s) of the upset;
- b. The permitted facility was at the time being properly operated;
- c. The permittee submitted notice of the upset as required in Part II I; and
- d. The permittee complied with any remedial measures required under Part II S.

3. In any enforcement preceding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and entry. The permittee shall allow the director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit actions. Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits.

1. Permits are not transferable to any person except after notice to the department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other

requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:

- a. The current permittee notifies the department at least 30 days in advance of the proposed transfer of the title to the facility or property;
- b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
- c. The board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability. The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

4. REGISTRATION STATEMENT AND INSTRUCTION

**VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
GENERAL PERMIT REGISTRATION STATEMENT
FOR POTABLE WATER TREATMENT PLANTS**

Please Type or Print All Information

1. APPLICANT INFORMATION:

- A. Name of Facility: _____
- B. Facility Owner: _____
- C. Owner's Mailing Address
1. Street or P.O. Box _____
2. City or Town _____ 3. State _____ 4. Zip Code _____
5. Telephone Number _____
6. Email Address _____
- D. Facility Location: _____
Street No., Route No., or Other Identifier
- E. Is the operator of the facility also the owner? ____ Yes ____ No
If No, complete F. & G.
- F. Name of Operator: _____
- G. Operator's Mailing Address
1. Street or P.O. Box _____
2. City or Town _____ 3. State _____ 4. Zip Code _____
5. Telephone Number _____
6. Email Address _____

2. FACILITY INFORMATION:

- Will this facility discharge to surface waters? ____ Yes ____ No
If yes, name of receiving waters _____
- Indicate if this type of water treatment plant has conventional treatment ____ or reverse
osmosis ____ or both ____.
- Does this facility currently have an existing VPDES Permit?
____ Yes ____ No If yes, what is the Permit No. _____
- Indicate if the settling basins, lagoons, or both are earthen lined to a permeability of no greater than
 10^{-6} cm/sec? ____ Yes ____ No
- Does the facility have an existing VPDES permit containing a ground water monitoring plan?
____ Yes ____ No
If so, submit a copy of the DEQ approved ground water monitoring plan.
- Has this facility completed a Whole Effluent Toxicity evaluation? ____ Yes ____ No
If yes, provide the results of the evaluation required by 9 VAC 25-860-50 A.3.

3. MAP:

Attach a topographic map extending to at least one mile beyond property boundary; indicate location of facility, the discharge point(s) and the name of topographic quadrangle.

4. NATURE OF BUSINESS: (provide a brief description)

5. NUMBER OF OUTFALLS AND THE FLOW RATE:

Actual or projected wastewater flow (typical volume, duration of discharges and number discharges per day/week),

_____ no. outfalls _____ million gallons per day

6. FACILITY DRAWING AND TREATMENT INFORMATION:

Attach a schematic drawing showing the source(s) of water used on the property and the conceptual design of the methods of treatment and disposal of wastewater.

7. CHEMICALS USED:

Provide information on chemicals used in the treatment, to include; (1) description of chemical, and (2) the proposed or actual schedule and quantity of chemical usage. Attach a Material Safety Data Sheet (MSDS).

8. SLUDGE DISPOSAL:

Provide a description of how solids and residue from the settling basins are disposed, for example, landfill or land applied, etc.

9. CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Signature: _____ Date: _____

Name of person signing above: _____
(printed or typed)

Title: _____

REQUIRED ATTACHMENTS:

Facility Drawing
Topographic Map
MSDS

For Department use only:

Accepted/Not Accepted by: _____ Date: _____

Basin _____ Stream Class _____ Section _____

Special Standards _____

**INSTRUCTIONS FOR COMPLETING THE REGISTRATION STATEMENT
FOR
THE GENERAL VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) PERMIT
FOR POTABLE WATER TREATMENT PLANT (VAG64)**

WHO MUST FILE THE REGISTRATION STATEMENT

This registration statement must be completed and submitted by any potable water treatment plant requesting coverage under this general permit.

WHERE TO FILE THE REGISTRATION STATEMENT

The completed registration statement and appropriate application fee should be sent to the Department of Environmental Quality Regional Office for your area.

COMPLETENESS

Complete all items except where indicated, or enter NA for "not applicable" in order for your registration statement to be accepted. If you need more space than the form allows, write on and attach extra sheets of paper.

DEFINITIONS

SIC Codes mean the "Standard Industrial Classification" codes listed in the Federal Office of Management and Budget (OMB) SIC Manual, 1987 and used as identifiers of industries with certain characteristics.

Potable Water Treatment Plant, for the purposes of this form means establishments primarily engaged in distributing water for sale for domestic, commercial, and industrial use as designated by SIC 4941.

Wastewater is water that results from the treatment of potable water.

Reverse Osmosis means a method of water treatment that involves the application of pressure to a concentrated solution which causes the passage of a liquid from the concentrated solution to a weaker solution across a semi-permeable membrane. The membrane allows the passage of the solvent (water) but not the dissolved solids (solutes).

LINE BY LINE INSTRUCTIONS

Item 1. APPLICANT INFORMATION

- Item A: Provide the name of the potable water treatment plant here.
- Item B: Provide the name of the person or corporation that owns the business. This does not have to be the owner of the building (e.g. if it is leased) but should be one who is responsible for the business and who wants coverage under the general permit.
- Item C: Provide the Facility operator's mailing address, telephone number and email address.
- Item D: Describe the nature of the business.
- Item E: If someone other than the owner listed in item B operates the portable water treatment plant and is the person with whom business will be conducted, check **No**. Otherwise check **Yes**.
- Item F: If **No** was checked above, indicate the name of the person other than the owner who operates the facility.
- Item G: Provide the address, telephone number and email address of the person other than the owner here.

Item 2. FACILITY INFORMATION

If the wastewater discharge will be to surface waters. Check **Yes**, and give the name of the receiving waters or municipal storm sewer owner. Otherwise check **No**.

Check if the water treatment plant has conventional treatment or reverse osmosis or both.

If this facility has previously been issued a VPDES permit, check **Yes** and list the VPDES Permit No(s).

If the settling basins and /lagoons earthen lined to a permeability of no greater than 10^{-6} cm /sec. Check **Yes**

Indicate if the existing VPDES permit contains a ground water monitoring plan by checking **Yes**.

If the facility has conducted a Whole Effluent Toxicity evaluation, check yes and indicate the results of the test.

Item 3. MAP

The map should be legible and of sufficient scale to show the required features with the site boundaries clearly marked. Copies of U.S. Geographical Survey 7.5 minute quadrangle maps are recommended.

Item 4. NATURE OF BUSINESS

Provide a brief description of the potable water treatment plant.

Item 5. NUMBER OF OUTFALLS

Provide the number of outfalls and the actual or projected wastewater flow.

Item 6. FACILITY DRAWING AND TREATMENT INFORMATION

The line drawing should show the source(s) of the water and the water's flow through all the treatment areas. List the dimensions or capacities for each unit in the treatment system (back wash, sedimentation basin, and decant water).

Item 7. CHEMICALS USED

List any chemicals added to the water that may be discharged.

Item 8. SLUDGE DISPOSAL

List the disposal method for solids in the basins, such as landfill or land applied, etc.

Item 9: CERTIFICATION

All registration statement shall be signed as follows:

1. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
3. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

5. EXAMPLE TRANSMITTAL LETTERS

Transmittal Letter
Potable Water Treatment Plant General VPDES Permit Registration Statement

Regional Letterhead

Facility Name
Address

ATTN: John Contact

RE: Registration for the General VPDES Permit for Potable Water Treatment Plant

Dear Mr. Contact:

General VPDES permit VAG64 for Potable Water Treatment Plant was adopted by the State Water Control Board at its October 16-17, 2008 meeting and is effective as of December 24, 2008. This general permit provides VPDES permit coverage to discharges from all qualified potable water treatment plants that submit a complete registration statement and are approved for coverage.

Individual VPDES permit holders or other potable water treatment owners who have demonstrated that there is not a reasonable potential for toxicity by performing a toxicity screening must complete and submit the enclosed registration statement if they wish to be covered under this general permit instead of an individual permit. The registration must be submitted [within 180 days of the expiration date of an existing individual permit] [within 30 days of commencing operation of a new process] [within X days]*. If your facility qualifies for the general permit, it is recommended that you obtain coverage in order to simplify requirements for having your wastewater discharges permitted.

**Note: For non-permitted existing facilities, inform them of the requirement to obtain a permit, the consequences of discharging without permit coverage and set a time for submittal.*

Instructions for completing the registration form are included in this package. The application fee for this general permit is \$600.00, and should be submitted in accordance with the permit fee form instructions.

If you have any questions, please do not hesitate to contact us.

Sincerely,

Regional WPM Name
Water Permit Manager

**Transmittal Letter
Potable Water Treatment Plant General VPDES Permit**

Regional Letterhead

Facility Name
Address

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

ATTN: John Contact

RE: Coverage under the General VPDES Permit for Potable Water Treatment Plant
VAG64_____

Dear Permittee:

We have reviewed your Registration Statement received on _____, and determined that this potable water treatment plant activity is hereby covered under the referenced general VPDES permit. The effective date of your coverage under this general permit is the date of this letter. The enclosed copy of the general permit contains the applicable effluent limitations, monitoring requirements and other conditions of coverage.

In accordance with the permit you are required to submit discharge monitoring reports (DMR) to:

Regional Office Address

The reporting form[s] is [are] included with the permit. You will be responsible for obtaining additional copies of the reporting form. A DMR is to be completed for each permitted outfall. The sampling and reporting are on a once per month basis with the DMRs due on the tenth of the following month. [The sampling and reporting are on a quarterly basis with the DMRs due on the tenth of April, July, October and January.]

The general permit will expire on December 23, 2013. You will be sent a reissuance reminder letter to submit a new registration statement if you wish continued coverage under the general permit.

If you have any questions, please do not hesitate to contact us.

Sincerely,

Regional WPM Name
Water Permit Manager

DISCHARGE MONITORING REPORTS

COMMONWEALTH OF VIRGINIA - DEPARTMENT OF ENVIRONMENTAL QUALITY
GENERAL PERMIT FOR POTABLE WATER TREATMENT PLANTS
DISCHARGE MONITORING REPORT (DMR)

12/24/2008

NAME Permittee Name
 ADDRESS Permittee Address

VAG64
PERMIT NUMBER

001
OUTFALL NUMBER

Department of Environmental Quality
 (REGIONAL OFFICE)

FACILITY LOCATION (If location is different from above)

FROM

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
			TO			

TO

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
 BEFORE COMPLETING.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED			MGD	*****	*****	*****				
	PERMIT REQUIREMENT	NL	NL		*****	*****	*****			1/M	EST
002 PH	REPORTED	*****	*****					SU			
	PERMIT REQUIREMENT	*****	*****		6.0	*****	9.0			1/M	GRAB
007 DO	REPORTED	*****	*****		*****		*****	MG/L			
	PERMIT REQUIREMENT	*****	*****		*****	4.0	*****			1/M	GRAB
089 TOTAL DIS. SOLIDS	REPORTED	*****	*****		*****	*****		MG/L			
	PERMIT REQUIREMENT	*****	*****		*****	*****	NL			1/M	5G/8HC
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS:

BYPASSES AND OVERFLOWS	Total Occurrences	Total Flow (MGD)	Total BOD ₅ (kg/d)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
							YEAR	MO	DAY
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (PENALTIES UNDER THESE STATUTES MAY INCLUDE FINES UP TO \$10,000 AND/OR MAXIMUM IMPRISONMENT OF BETWEEN 6 MONTHS AND 5 YEARS.)				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.			
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			DATE		
							YEAR	MO	DAY
				TYPED OR PRINTED NAME	SIGNATURE	Area Code/Number			

COMMONWEALTH OF VIRGINIA - DEPARTMENT OF ENVIRONMENTAL QUALITY
GENERAL PERMIT FOR POTABLE WATER TREATMENT PLANTS
DISCHARGE MONITORING REPORT (DMR)

12/24/2008

NAME Permittee Name
 ADDRESS Permittee Address

VAG64
PERMIT NUMBER

001
OUTFALL NUMBER

Department of Environmental Quality
 (REGIONAL OFFICE)

FACILITY LOCATION (If location is different from above)

FROM

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY

TO

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
 BEFORE COMPLETING.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED			MGD	*****	*****	*****				
	PERMIT REQUIREMENT	NL	NL		*****	*****	*****			1/M	EST
002 PH	REPORTED	*****	*****					SU			
	PERMIT REQUIREMENT	*****	*****		6.0	*****	9.0			1/M	GRAB
004 TSS	REPORTED	*****	*****		*****		*****	MG/L			
	PERMIT REQUIREMENT	*****	*****		*****	30	60			1/M	5G/8HC
005 TOTAL RESIDUAL CHLORINE	REPORTED	*****	*****		*****	*****		MG/L			
	PERMIT REQUIREMENT	*****	*****		*****	0.011	0.011			1/M	GRAB
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS:

BYPASSES AND OVERFLOWS	Total Occurrences	Total Flow (MGD)	Total BOD ₅ (kg/d)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
							YEAR	MO	DAY
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (PENALTIES UNDER THESE STATUTES MAY INCLUDE FINES UP TO \$10,000 AND/OR MAXIMUM IMPRISONMENT OF BETWEEN 6 MONTHS AND 5 YEARS.)									
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.			
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			DATE		
							YEAR	MO	DAY
				TYPED OR PRINTED NAME	SIGNATURE	Area Code/Number			